



Labsmart Software Sample Letterhead

+91 12345 67890

yourlabname@gmail.com

<https://www.yourlabname.in/>**Mr. Saubhik Bhaumik**

Age / Sex : 27 YRS / M
Referred by : Dr. Sachin Patil (MBBS)
Reg. no. : 1056



1056

Registered on : 11/11/2024 04:24 PM
Collected on : 11/11/2024
Received on : 11/11/2024
Reported on : 11/11/2024 04:24 PM

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**BIOCHEMISTRY**

TEST	VALUE	UNIT	REFERENCE
CPK-MB	4.2	ng/mL	< 5 ng/mL

Physiological basis

CK consists of three isoenzymes, made up of 2 subunits, M and B. The fraction with the greatest electrophoretic mobility is CK1 (BB), CK2 (MB) is intermediate, and CK3 (MM) moves slowest toward the anode. Skeletal muscle is characterized by isoenzyme MM and brain by isoenzyme BB. Myocardium has approximately 40% MB isoenzyme. Assay techniques include isoenzyme separation by electrophoresis (isoenzyme activity units) or by immunoassay using antibodies specific for MB fraction (mass units).

Interpretation

Increased in: Myocardial infarction, cardiac trauma, certain muscular dystrophies, and polymyositis. Slight persistent elevation reported in a few patients on hemodialysis.

Comments

CK-MB is a relatively specific test for MI. It appears in serum approximately 4 hours after infarction, peaks at 12–24 hours, and declines over 48–72 hours. CK-MB mass concentration is a sensitive marker of MI within 4–12 hours after infarction. Because cardiac troponins are now the markers of choice for the diagnosis of acute MI, high sensitivity cardiac troponin I test has largely replaced the conventional CK-MB assay. Measurement of CK-MB remains useful in evaluating patients who are already troponin positive and have recurrent chest pain and in follow-up of patients who are status post interventional procedures.

~~~ End of report ~~~

Mr. Sachin Sharma  
DMLT, Lab Incharge

Dr. A. K. Asthana  
MBBS, MD Pathologist

**NOT VALID FOR MEDICO LEGAL PURPOSE**

Work timings: Monday to Sunday, 8 am to 8 pm

Please correlate clinically. Although the test results are checked thoroughly, in case of any unexpected test results which could be due to machine error or typing error or any other reason please contact the lab immediately for a free evaluation.